	Application No.	Applicant(s)
Notice of Allowability	10/007,322	KADAMBE, SHUBHA
	Examiner	Art Unit
	Brian L. Albertalli	2655
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT THE Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati GHTS. This application is subject	ipplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to 14 October 2005.		
2. X The allowed claim(s) is/are 3.5,7-11,14,16,18-22,25,27,29-	33,35,37,39,41,43 and 45-60.	
 3. Acknowledgment is made of a claim for foreign priority units. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application No.	
International Bureau (PCT Rule 17.2(a)).	differed have been received in the	3 hational stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINE s reason(s) why the oath or decla	R'S AMENDMENT or NOTICE OF ration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	
(a) I including changes required by the Notice of Draftsperso	on's Patent Drawing Review (PT0	O-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in th	84(c)) should be written on the drav ie header according to 37 CFR 1.12	vings in the front (not the back) of 1(d).
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGI	. must be submitted. Note the CAL MATERIAL.
		,
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948)	5. Notice of Informal 6. Interview Summar	Patent Application (PTO-152)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08	Paper No./Mail D	ate
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	9. 🗌 Other	W. R. YOUNG MARY EXAMINER
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DETAILED ACTION

Allowable Subject Matter

Claims 3, 5, 7-11, 14, 16, 18-22, 25, 27, 29-33, 35, 37, 39, 41, 43, and 45-60 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 3, 14, and 25 refer to an apparatus, method and computer program product for blind separation of an overcomplete set of mixed signals, respectively. The prior art of record does not disclose, nor would it suggest to one of ordinary skill in the art, the limitation of adjusting the clustering of the mixed signal samples and parameters of the geometric constraint.

Claims 5, 16, and 27 refer to an apparatus, method and computer program product for blind separation of an overcomplete set of mixed signals, respectively. The examiner agrees that it would not have been obvious to one of ordinary skill in the art to modify Bofill et al. to jointly optimize the matrixes S and A in the presence of noise, as there is no indication as to how to find a solution for the case in which noise is present in Bofill et al.

Claims 35, 37, 39, 41, 43, and 45 refer to apparatus, method and computer program product for the determination of a CR bound for both an estimated mixing matrix A and a estimated signal matrix S. The prior art of record does not disclose, nor

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would it suggest to one of ordinary skill in the art in the recited combination, a parameter λ_k^2 which is developed from a log likelihood function depending on a representation of the source signal S.

New claims 46-60 further limit allowed claims 5, 16, and 27, and thus are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian L. Albertalli whose telephone number is (571) 272-7616. The examiner can normally be reached on Mon - Fri, 8:00 AM - 5:30 PM, every second Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BLA 11/7/05

W. R. YOUNG PRIMARY EXAMINER